

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

YOU ME PATENT AND LAW FIRM

Seolim Bldg., 649-10, Yoksam-dong, Kangnam-ku, Seoul 135-080, Republic of Korea

PCT

WRITTEN OPINION OF THE RECEIVED
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)



Date of mailing
(day/month/year) 26 MAY 2005 (26.05.2005)

Applicant's or agent's file reference
OPP050108KR

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/KR2005/000314

International filing date (day/month/year)

02 FEBRUARY 2005 (02.02.2005)

Priority date (day/month/year)

02 FEBRUARY 2004 (02.02.2004)

International Patent Classification (IPC) or both national classification and IPC

IPC7 H04Q 7/34

Applicant

Electronics and Telecommunications Research Institute et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

PARK, Jin Seok

Telephone No. 82-42-481-5782



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2005/000314

Box No. 1 Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/KR2005/000314

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-13	YES
	Claims		NO
Inventive step (IS)	Claims	1-13	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-13	YES
	Claims		NO

2. Citations and explanations :

Reference is made to the following document:

D1: US 6,445,916 (Date of Patent: 3 Sep. 2002)

1. Novelty

Claims 1-13 are considered to be novel considering the available prior art, because the prior art does not involve any of the technical features as specifically set out in the claims of the present invention.

2. Inventive step

The subject matter of the claims 1-13 of the present invention relates to a method for requesting channel quality information in a wireless portable Internet system. The claimed invention is characterized in that it includes:

- a base station which determines the interval of a channel quality information request;
- ARQ-ACK message of downlink data;
- allocated radio resources for the ARQ-ACK message and channel quality report to the subscriber station;
- received information on the ARQ-ACK message and channel quality report; and
- modulation and coding level of downlink data.

The present invention provides a method for quickly adapting to the most recent channel state and applying the most efficient modulation and coding level in transmitting and receiving data to or from a corresponding subscriber station.

The cited prior art, D1 provides a method for evaluating the quality of services in a wireless communications system by measuring the actual quality service level over the measuring interval to characterize the actual quality of service with respect to the target quality of service level.

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2005/000314

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of :

None of the cited prior art discloses all the steps of the present invention that are considered to be unique to this invention. Thus, the invention claimed in claims 1-13 is considered to involve inventive step under 33(3) PCT because the documents cited in the international search report, each or altogether in combination do not teach or fairly suggest the present invention.

3. Industrial applicability

Claims 1-13 meet the criteria of PCT Article 33(4) because the present invention has applications for a wireless communications system.